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MATERIAL SAFETY DATA SHEET

571212

Section 1 Chemical Product and Company Information
 Product: **TIN METAL**
 Synonyms: N/A

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units
Tin metal	7440-31-5	99.85%	TWA: 2 mg/m ³ (air) (ACGIH 2001)

Section 3 Hazards Identification

Emergency Overview
CAUTION!
 HARMFUL IF INHALED AS DUST OR FUME.
 May cause irritation to skin and eyes. Avoid contact with acids or acid fumes.
 Target organs: None known.

Health	Fire	Reactivity	Contact
0	0	0	1

HMIS *

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.
SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

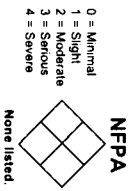
Section 5 Fire Fighting Measures

General Information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Non-flammable and non-combustible solid, but air-born dust may ignite. Molten metals produce fume, vapor and/or dust that may be toxic and/or respiratory irritants. In contact with acids, emits hydrogen gas. This gas is flammable and can cause explosion. Do not use water to fight fires involving this material.

Extinguishing Media: Use triclass, dry chemical fire extinguisher. Do not use water.
Flash Point: Non-flammable.
Autoignition temperature: N/A
Explosion Limits: Lower: N/A Upper: N/A

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.



Section 7 Handling & Storage
 Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dust. Wash thoroughly after handling. Remove and wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or face shield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.
Respiratory protection: None needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Section 9 Physical & Chemical Properties

Physical state: Solid
Appearance: Silvery, metallic granular.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): 1 mm @ 1492°C
Vapor Density (Air = 1): 4.11
Evaporation rate (Butyl acetate = 1): N/A
Viscosity: N/A

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: Contact with acids.
Incompatibilities with other materials: Strong oxidizers, chlorine, cupric nitrate, potassium, sodium peroxide, sulfur, halogens, sulfonic chlorosulfonic and pyrosulfuric acid.
Hazardous decomposition products: Oxides of tin may be present. Reacts with acids, causing evolution of flammable hydrogen gas.

Section 11 Toxicological Information

Effects of overexposure: Material may be irritating to mucous membranes and upper respiratory tract. If product gets into eyes, corneal abrasions may occur. May cause abrasions on contact with skin. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

RTECS No: XP7320000
 ORL-RAT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A
 Shipping name: Not Regulated.
 Hazard class: N/A
 Packing group: N/A
 Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-141-8), RCRA code D001

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Hazardous Materials Industrial Standards.

GENERAL STORAGE CODE GREEN